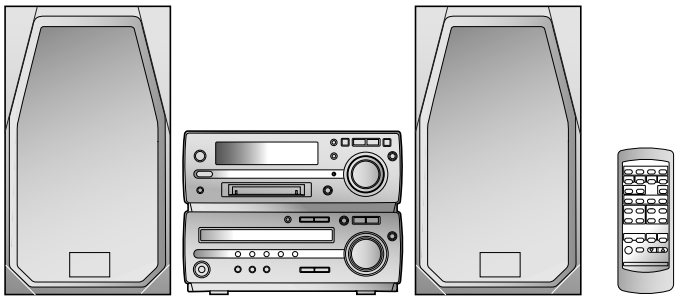
# SHARP SERVICE MANUAL

No. S4026MDMX20H/



# MD-MX20H

**MD-MX20H MD Compact Component System consisting of MD-MX20H(main unit) and CP-MX20H(speaker system).**

- In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified should be used.

- **Note for users in UK**
  Recording and playback of any material may require consent which SHARP is unable to give. Please refer particularly to the provisions of Copyright Act 1956, the Dramatic and Musical Prefomers Protection Act 1956, the Preformers Protection Acts 1963 and 1972 and to any subsequent statutory enactments and orders.

This model MD-MX20H has the same structure as the former model MD-MX30H except for the speakers. Only the points different from the MD-MX30H (No. S5924MDMX30H) are described in this manual.
Please refer to the already issued service manual for MD-MX30H (No. S5924MDMX30H) as well as this service manual.

## SPECIFICATIONS

● **General**

| | |
|---|---|
| **Power source:** | AC 230 V, 50 Hz |
| **Power consumption:** | 50 W |
| **Dimensions:** | Width; 215 mm (8-1/2")<br>Height; 162 mm (6-7/16")<br>Depth; 344 mm (13-9/16") |
| **Weight:** | 4.4 kg (10.4 lbs.) |

● **Amplifier section**

| | |
|---|---|
| **Output power:** | RMS; 30 W (15 W+15 W) (DIN 45 324)<br>MPO; 58 W (29W+29W) (DIN 45 324) |
| **Output terminals:** | Speaker; 6 ohms<br>Headphones; 16 - 50 ohms<br>(recommended 32 ohms) |
| **Input terminals:** | Auxiliary; 500 mV/47 k ohms |

● **Speaker section**

| | |
|---|---|
| **Type:** | 2-way speaker system<br>[10cm (4") woofer and<br>5cm (2") tweeter] |
| **Maximum input power:** | 30 W |
| **Rated input power:** | 15 W |
| **Impedance:** | 6 ohms |
| **Dimensions:** | Width; 160 mm (6-5/16")<br>Height; 280 mm (11-1/16")<br>Depth; 185.5 mm (7-5/16") |
| **Weight:** | 2.0 kg (4.4 lbs.)/each |

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This document has been published to be used for after sales service only.
The contents are subject to change without notice.

# DIFFERENCE BETWEEN MD-MX30H AND MD-MX20H

| REF. NO | PART NO. ★ MD-MX30H | | PART NO. ★ MD-MX20H | | DESCRIPTION | PRICE RANK |
|---|---|---|---|---|---|---|
| **INTEGRATED CIRCUIT** | | | | | | |
| ICV01 | VHISTK40203-1 | J | VHISTK40202-1 | J | Power Amp,STK40202 | AW |
| **DIODE** | | | | | | |
| LEDD02 | VHPLNG901CF-1 | J | VHPEL16TV00-1 | J | LED,Orange, EL16TV00 | AL |
| **TRANSFORMER** | | | | | | |
| ⚠ T991 | RTRNP0279AWZZ | J | RTRNP0283AWZZ | J | Power (MAIN) | BA |
| **CAPACITORS** | | | | | | |
| C805,806 | RC-EZ0046AWZZ | J | VCEAZW1VW228M | J | 2200 µF,35V,Electrolytic | AH |
| C812 | VCEA4U1HN476M | J | VCEA4U1HN107M | J | 100 µF,50V,Electrolytic | AC |
| CU17,18 | VCEAEA1HW334M | J | VCEAEA1HW224M | J | 0.22 µF,50V,Electrolytic | AB |
| **RESISTORS** | | | | | | |
| RD80 | VRD-MN2BD820J | J | VRD-MN2BD151J | J | 150 ohms,1/8W | AA |
| RS05,06 | VRD-ST2CD272J | J | VRD-ST2CD332J | J | 3.3 kohms,1/6W | AA |
| **OTHER CIRCUITRY PARTS** | | | | | | |
| ⚠ F801,802 | QFS-D402CAWNI | J | QFS-D322CAWNI | J | Fuse,T3.2A L 250V | |
| **CABINET PARTS** | | | | | | |
| 209 | 92LPNL3253AS1 | J | 92LPNL3254AS1 | J | Decoration Plate Ass'y | |
| 248 | TSPC-0623AWZZ | J | TSPC-0647AWZZ | J | Label,Specification [For Europe] | AC |
| 248 | TSPC-0641AWZZ | J | TSPC-0648AWZZ | J | Label,Specification [For U.K.] | |
| **ACCESSORIES/PACKING PARTS** | | | | | | |
| 5 | SPAKC0863AWZZ | J | SPAKC0863AWZZ | J | Packing Case | AR |
| 10 | TINSE0270AWZZ | J | TINSE0285AWZZ | J | Operation Manual [For U.K.] | AG |
| 10 | TINSZ0483AWZZ | J | TINSZ0517AWZZ | J | Operation Manual [For Europe] | AS |
| 11 | TINSE0280AWZZ | J | TINSE0286AWZZ | J | Quick Guide [For U.K.] | AC |
| 12 | TLABE0345AWZZ | J | TLABE0352AWZZ | J | Label,Bar Cord (Not Replacement Item) | |
| 13 | TLABZ0642AWZZ | J | TLABZ0685AWZZ | J | Label,POP | |
| 18 | PSHEZ0032AWZZ | J | Not Used | J | Cushion,Leg | |
| 19 | SPAKA0238AWZZ | J | 92L416-0070 | J | Packing Add.,Speaker | AM |
| 20 | SPAKC0925AWZZ | J | 92L418-0098 | J | Packing Case | AM |
| 21 | SSAKH0024AWZZ | J | 92L414-0037 | J | Polyethylene Bag,Speaker | |
| 22 | SPAKZ0575AWZZ | J | 92L416-0073 | J | Pad,Center | AG |
| 23 | SPAKZ0576AWZZ | J | 92L416-0071 | J | Pad,Top | AD |
| 24 | SPAKZ0577AWZZ | J | 92L416-0072 | J | Pad,Bottom | AG |
| 25 | TSPC-0661AWZZ | J | 92L651-0357 | J | Label,Specification | |
| **P.W.B. ASSEMBLY (Not Replacement Item)** | | | | | | |
| PWB-A1~5 | 92LPWB3253MANS | J | 92LPWB3254MANS | J | Main/CD Servo/Tuner/Holder/Holder | — |
| ⚠ PWB-B1~3 | 92LPWB3253DPLS | J | 92LPWB3254DPLS | J | Display/Power/Power | — |

**★ MARK: SPARE PARTS-DELIVERY SECTION**

## NOTE:

Parts marked with "⚠" are important for maintaining the safety of the set.
Be sure to replace parts with specified ones for maintaining the safety and performance of the set.

**• MD-MX-30H Service Manual 44 page.**

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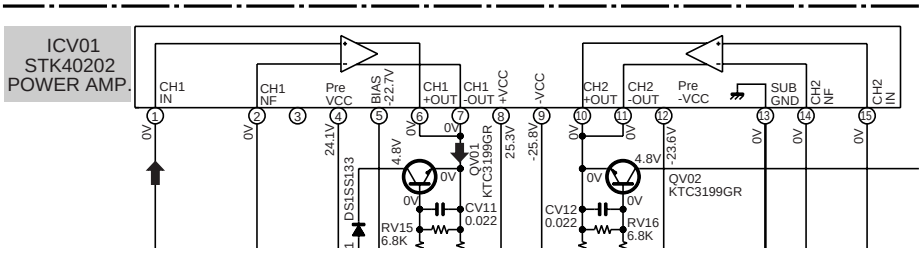


**Figure 2 SCHEMATIC DIAGRAM (MAIN)**

**• MD-MX-30H Service Manual 42,43 page.**

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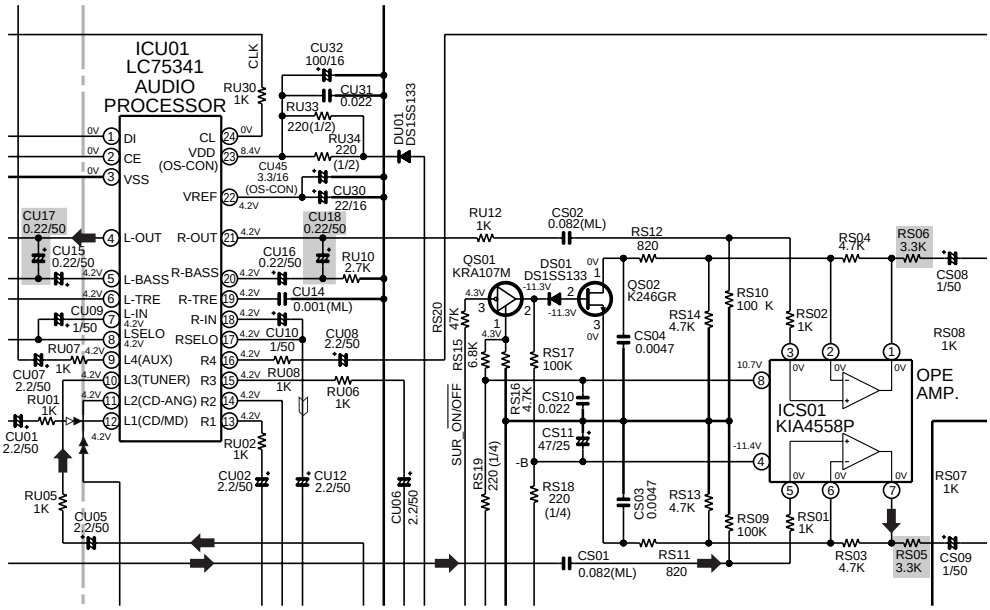


**Figure 3-1 SCHEMATIC DIAGRAM (MAIN)**

**• MD-MX-30H Service Manual 44,45 page.**

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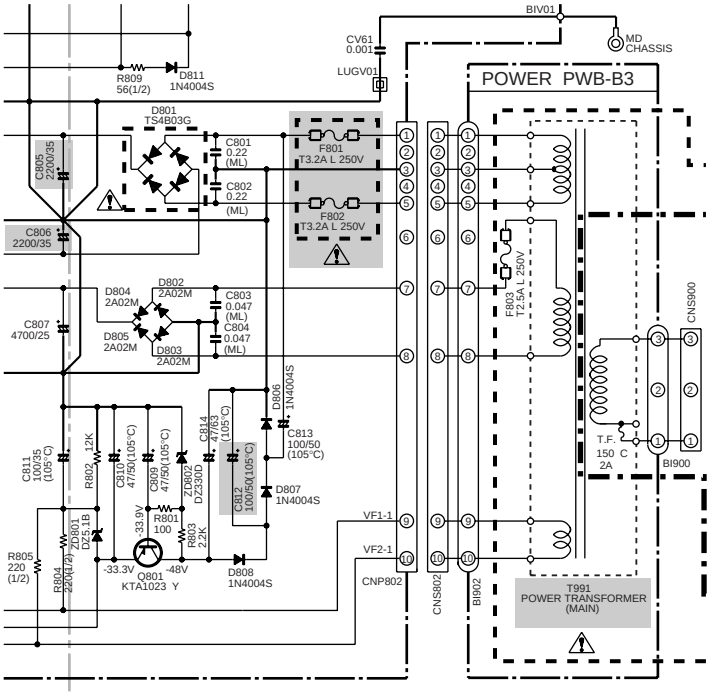


**Figure 3-2 SCHEMATIC DIAGRAM (MAIN)**

**• MD-MX-30H Service Manual 40,41 page.**

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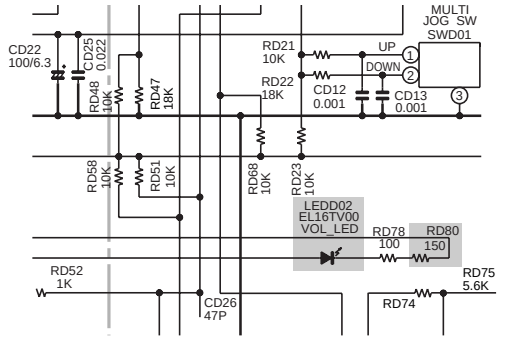


**Figure 3-3 SCHEMATIC DIAGRAM (DISPLAY)**

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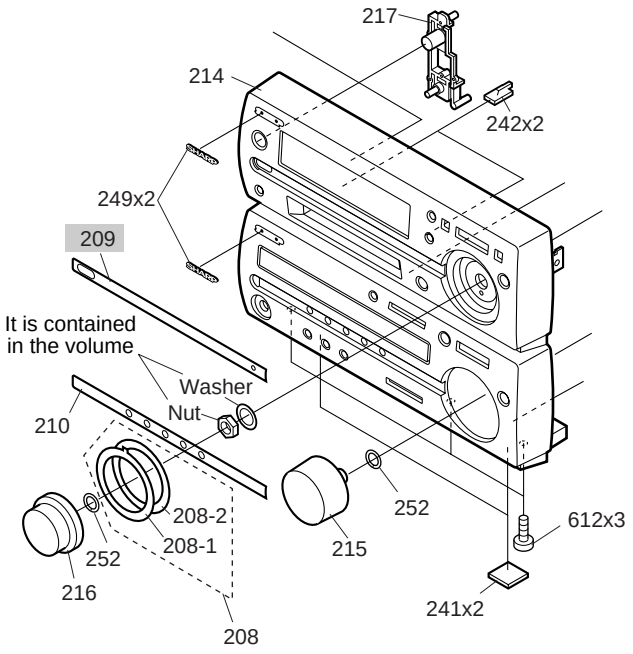


**Figure 4-1 CABINET EXPLODED VIEW**

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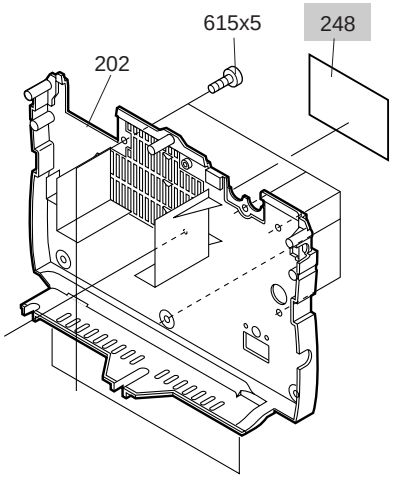



**Figure 4-2 CABINET EXPLODED VIEW**

# DISASSEMBLY

**SPEAKER**

| STEP | REMOVAL | PROCEDURE | FIGURE |
|---|---|---|---|
| 1 | Front Panel<br>Speaker | 1. Front Panel ..... (A1) x1<br>2. Screw ..... (A2) x6 | 4-3<br>4-3 |

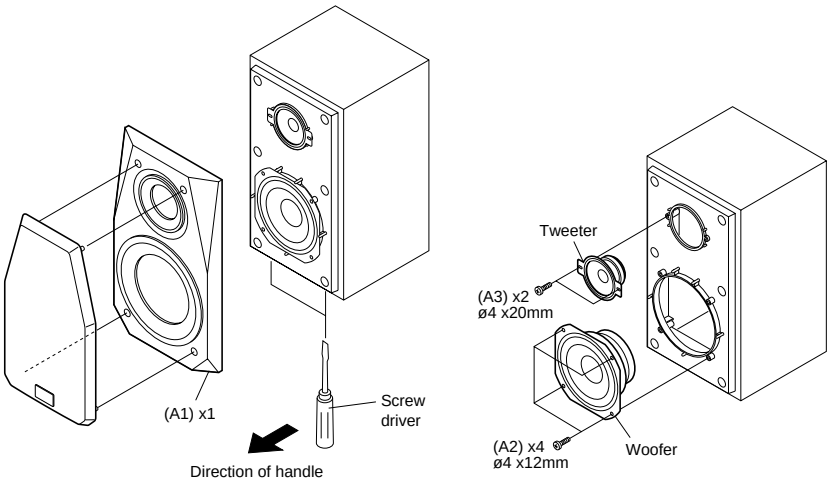


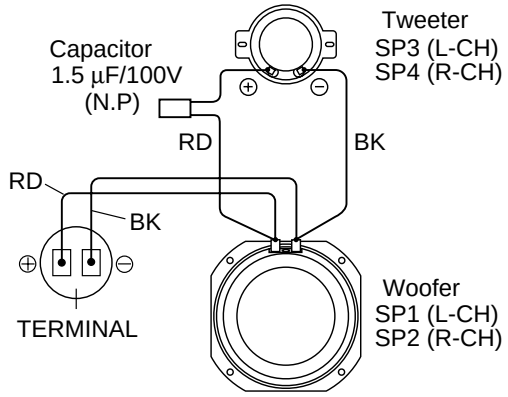

**Figure 4-3**

**CP-MX20H**

| NO. | PARTS CODE | ★ PRICE RANK | DESCRIPTION |
|---|---|---|---|

## SPEAKER BOX PARTS

| | | | |
|---|---|---|---|
| 901 | 92L051-0084 | J | Speaker Box Ass'y |
| 902 | 92L121-0186 | J | Net Frame Ass'y |
| 903 | 92L312-0083 | J | Front Panel |
| 904 | 92L31319-0033 | J | Net Catch |
| 905 | 92L122-0051 | J | Read Ass'y (With Capacitor) |
| 906 | 92L351-0357 | J | Label,Specifications |
| 908 | 92L372-0025 | J | Screw,ø4×12mm |
| SP1,2 | VSP0010WB046A | J | Woofer |
| SP3,4 | VSP0051TBN16A | J | Tweeter |



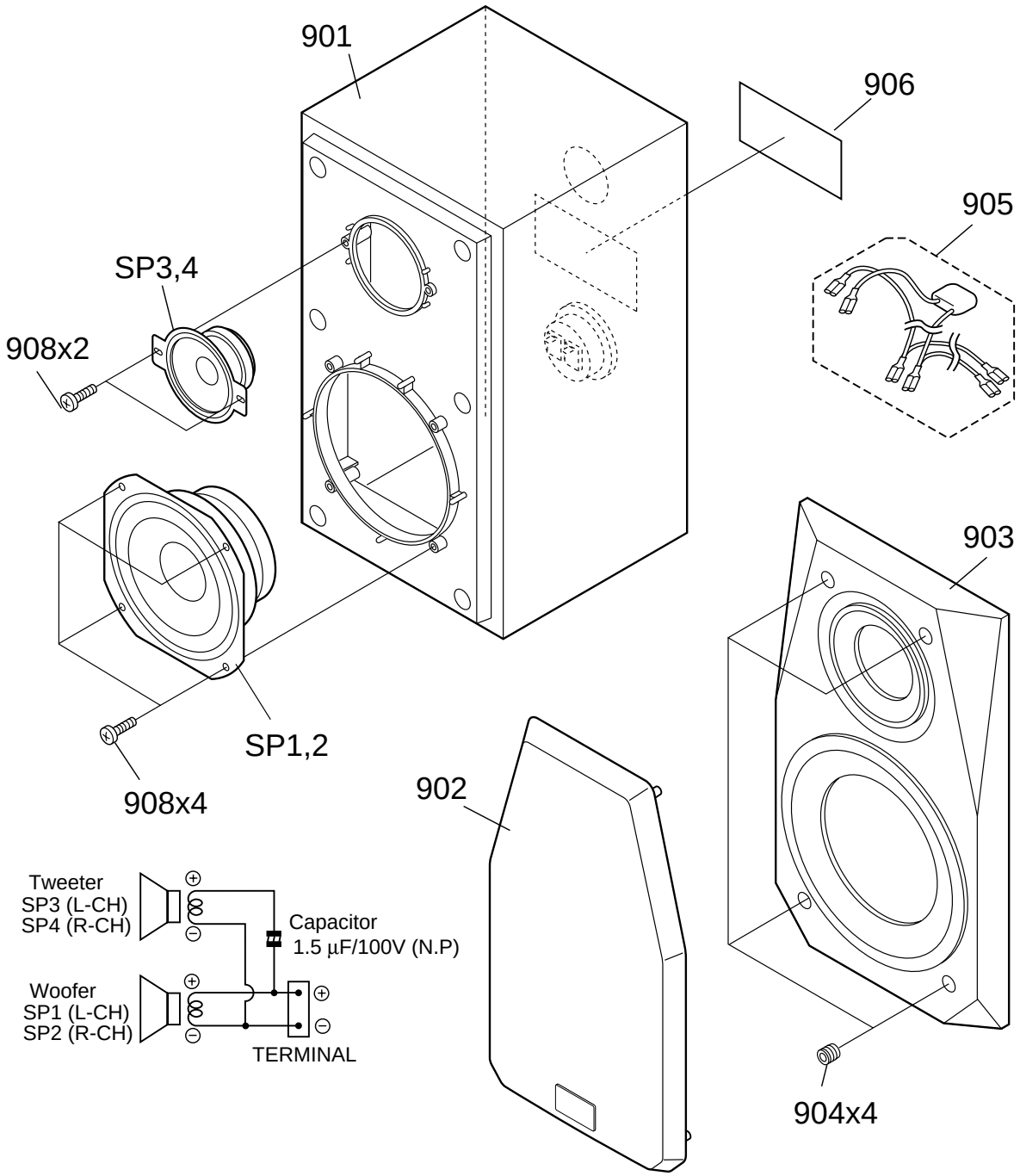




**Figure 5 SPEAKER EXPLODED VIEW**

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